

DaimlerChrysler AG

Patent Claims

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1. A fixing element (10) of a unit for a motor vehicle for fixing a drive train to a frame of the motor vehicle, with a unit holder (1) on which the drive train is fixedly mounted, with at least one
10 crossmember (2) for reinforcing the vehicle frame, and with a mounting (3, 4) for the mounting of the drive train, characterized in that the at least one crossmember (2) and the unit holder (1) are coupled to each other via the mounting (3, 4) and are fixed as a
15 composite construction to the vehicle frame in such a manner that moments resulting from the drive train can be compensated for by the crossmember (2).

2. The fixing element (10) of a unit as claimed in
20 claim 1, characterized in that the crossmember (2) is of torsion-proof design in order to absorb moments with respect to a longitudinal axis of the motor vehicle and is fixed directly to the mounting (3, 4).

25 3. The fixing element (10) of a unit as claimed in either of claims 1 and 2, characterized in that the crossmember (2) comprises two member parts (21, 22) which are connected at their ends to the side of and spaced apart from the unit holder (1) to a respective
30 bearing housing (13) for the elastic bearing elements (14) of the mounting (3, 4).

4. The fixing element (10) of a unit as claimed in one of the preceding claims, characterized in that the
35 mounting (3, 4) comprises two elastic bearings which are mounted fixedly on the body and each have fixing openings (5, 6) for the crossmember (2) and the unit holder (1).

5. The fixing element (10) of a unit as claimed in one of the preceding claims, characterized in that the unit holder (1) comprises a connecting part which is formed from a central, for example U-shaped profiled beam or a connecting part which is assembled from a plurality of parts, said connecting part being designed for the transmission of moments and forces.

6. The fixing element (10) of a unit as claimed in one of the preceding claims, characterized in that the unit holder (1) is fixed to the elastic layer (14) of the mounting (3, 4) via fixing means (7) and via corresponding fixing openings (5).

7. The fixing element (10) of a unit as claimed in one of the preceding claims, characterized in that the crossmember (2) is mounted on the mounting (3, 4) via fixing means (8, 9) via corresponding fixing openings (6).

8. The fixing element (10) of a unit as claimed in one of the preceding claims, characterized in that the mounting (3, 4) comprises block-like, elastic bearing elements comprising a fixing plate or a fixing housing (13).

9. The fixing element (10) of a unit as claimed in claim 8, characterized in that the bearing elements comprise a composite construction of elastic layers and metal plates.